

**REMARKS****I. Status of the Claims**

Claims 2 and 4-9 are pending in the instant application.

By this Amendment, claim 2 has been amended. This amendment is supported for example by at least page 20 of the specification. No new matter is introduced.

**II. Response to the Rejections under 35 U.S.C. §103(a)**

Claims 2 and 4-9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Egawa et al. (U.S. Patent No. 5,870,178, hereinafter “Egawa”) in view of Goff (U.S. Patent No. 6,114,910, hereinafter “Goff”) in further view of Lowles et al. (U.S. Patent No. 5,754,422, hereinafter “Lowles”).

Claim 2 as amended is directed to an arrangement in which a control unit adapted to control to (1) decrease a gain when a temperature measured by said temperature measuring unit is higher than a predetermined temperature, (2) increase the gain when the temperature measured by said temperature measuring unit is lower than the predetermined temperature and the signal amount measured by said signal measuring unit is lower than a predetermined signal amount, and (3) decrease the gain when the temperature measured by said temperature measuring unit is lower than the predetermined temperature and the signal amount measured by said signal measuring unit is higher than the predetermined signal amount.

The cited references do not appear to at least disclose or suggest the above-noted feature, particularly as to control of the gain in view of the measured temperature and measured signal amount, as noted above.

Accordingly, claim 2 and its dependent claims are believed to be distinguishable over the cited references, individually or in combination.

**CONCLUSION**

Based on the foregoing amendments and remarks, Applicants respectfully request reconsideration and withdrawal of the rejection of claims and allowance of this application.

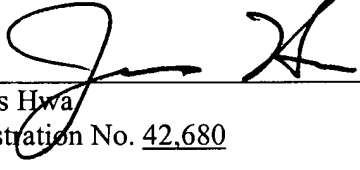
**AUTHORIZATION**

While no other fees are believed due for the timely filing and consideration of this paper, the Commissioner is hereby authorized to charge any additional fees, or credit any overpayment for an extension of time to Deposit Account No. 13-4500, Order No. 1232-4758. A DUPLICATE OF THIS DOCUMENT IS ATTACHED.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

Dated: December 9, 2005

By: \_\_\_\_\_

  
James Hwa  
Registration No. 42,680

**Correspondence Address:**

MORGAN & FINNEGAN, L.L.P.  
3 World Financial Center  
New York, NY 10281-2101  
(212) 415-8700 Telephone  
(212) 415-8701 Facsimile